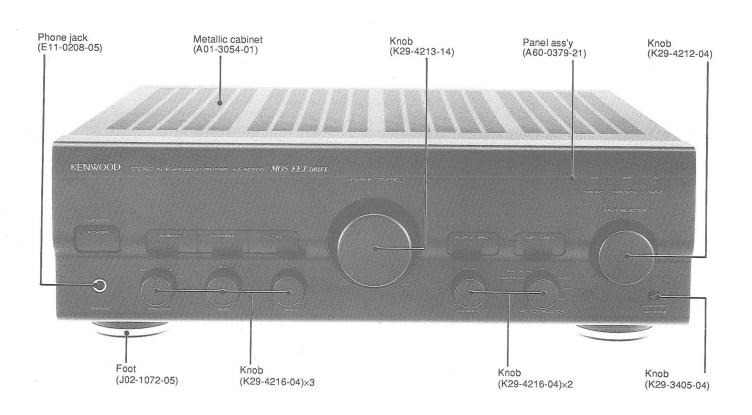
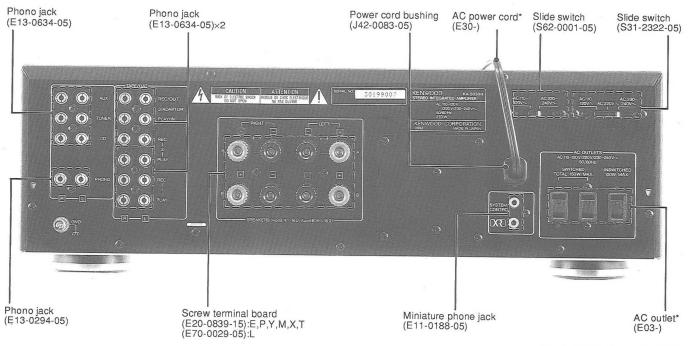
STEREO INTEGRATED AMPLIFIER

KA-5050R SERVICE MANUAL

KENWOOD

© 1993-3 PRINTED IN JAPAN B51-4708-00 (S) 2804





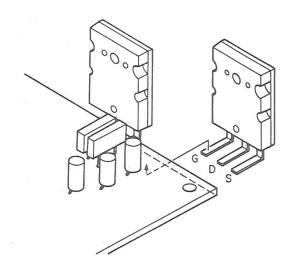
* Refer to parts list on page 23.

CONTENTS

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WIRING DIAGRAM5	SPECIFICATIONS3	1

NOTES

- Handle the power MOS-FETs carefully. They are easily destroyed by static electricity.
- When soldering, use a high-insulation soldering iron.
- When soldering, solder the gate (G) first.



- When replacing the power MOS-FET, there are differences according to the ranks, so please replace Pch (or Nch) as a pair of identical rank.
- The parts stock for parts of the same rank as Pch (or Nch) come in packs of pairs.
 When ordering a quantity of 1, one pack (containing 2) will be delivered in one bag.
 Please order as 2SK1529LBP4, 2SJ200LBP4.

There is no need to adjust the ranks of Pch and Nch, and there is no need to adjust the ranks of the left channel and right channel either.

 Since the KA-5050R is a FET amp, even with no signal, nearly as much heat is generated as for maximum output.

When piling sets on top of each other, put this amp at the top. Placing any other unit on top of this amp interferes with the heat release and can cause harm, so do not do this.

ACCESSORIES

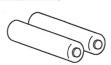
INSTRUCTION MANUAL

B60-1131-00 ENGLISH B60-1132-00 FRENCH E, L, P B60-1133-00 CHINESE M B60-1134-00 SPANISH E, M B60-1135-00 GE, DU, IT E, L Accessories

Remote control unit1
 (A70-0932-05)
 (A09-0146-08): Battery cover

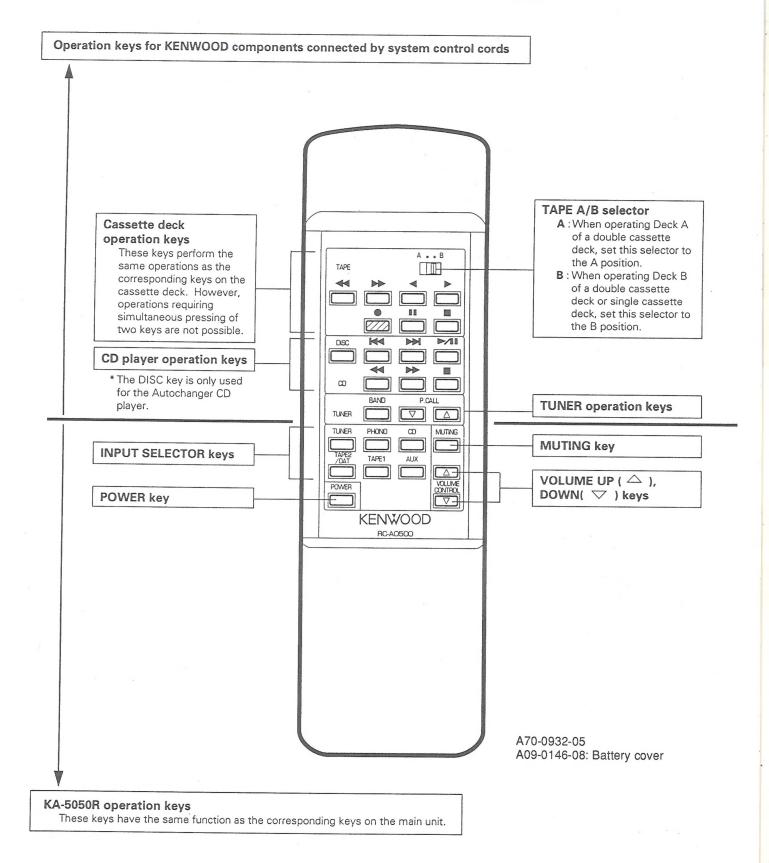
Batteries (R6/SUM-3/*AA*)







REMOTE CONTROL OPERATION



ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
	Unless otherwise POWER: ON		ective switches as follows REC OUT: OFF SELEC				
1	IDLE CURRENT	_	Connect a DC voltmeter across CN3 Pin 1-2 CN3 Pin 3-4 CN4 Pin 1-2 CN4 Pin 3-4	VOLUME: 0	VR1,3 (L) VR2,4 (R)	10 mV	(a)

REGLAGES

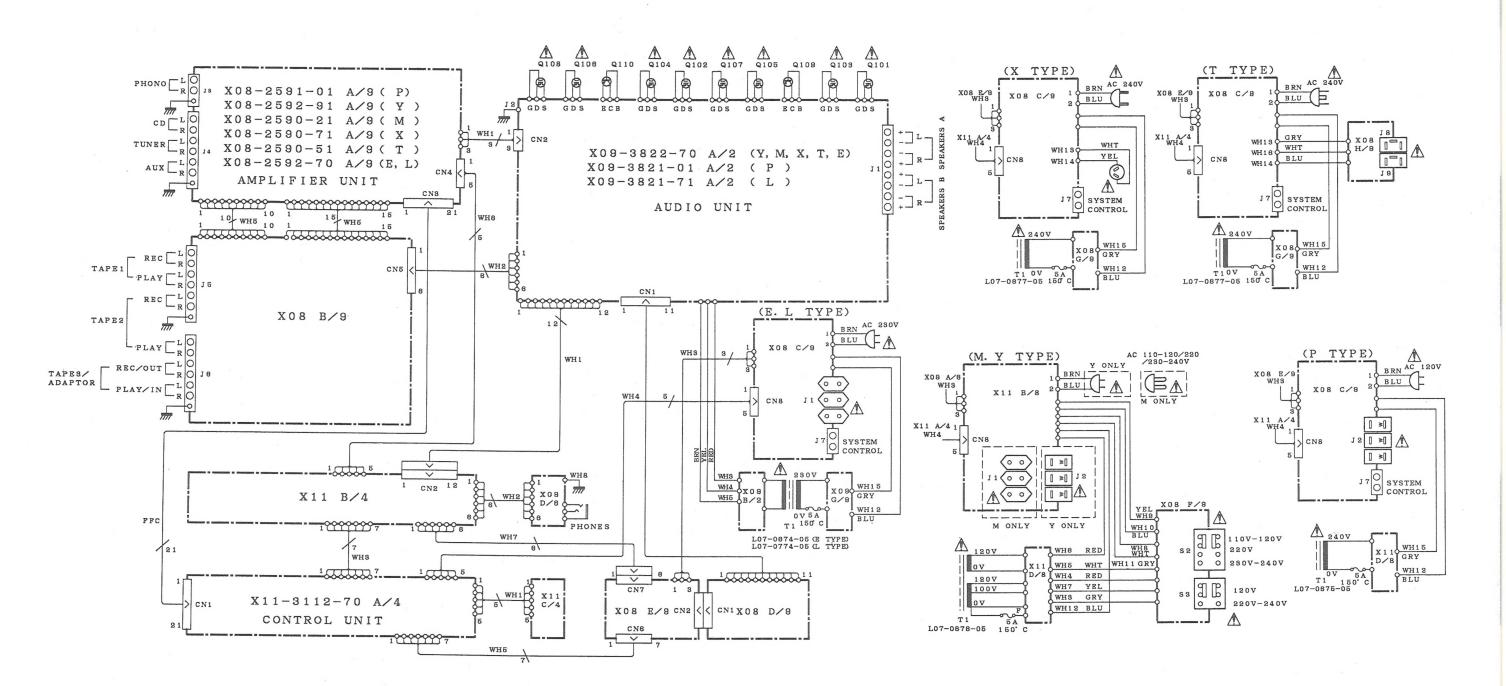
, N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
	Sauf indicationcon		suit les commandes respe OUT: OFF SELECTO				
1	COURANT DE PLARISATION	_	Connecter un voltmètre de CC SUR CN3 Pin 1-2 CN3 Pin 3-4 CN4 Pin 1-2 CN4 Pin 3-4	VOLUME: 0	VR1,3 (G) VR2,4 (D)	10 mV	(a)

ABGLEICH

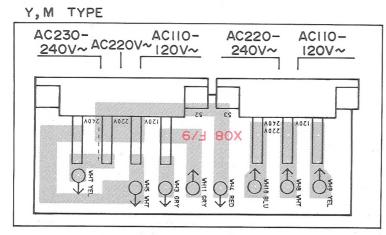
NR.	GEGENSTAND	EINGANGS- EINSTELLUNG	AUSGANGS- EINSTELLUNG	VORSTÄRKER- EINSTELLUNG	ABGLEICH- PUNKTE	ABGLEICHEN FUR	ABB.
	Wenn nicht anders POWER: ON SI		elnen Schalter wie folgt ei OUT: OFF SELECTEI			9 - 300	
1	LEERLAUFSTROM	_	Einen Gleichspannungs- messer Uber CN3 Pin 1-2 CN3 Pin 3-4 CN4 Pin 1-2 CN4 Pin 3-4 anschließen.	VOLUME: 0	VR1, 3(L) VR2, 4(R)	10 mV	(a)

KA-5050R KA-5050R

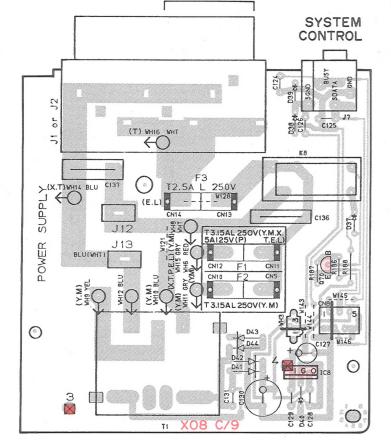
WIRING DIAGRAM

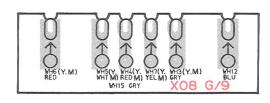


PC BOARD (Component side view)

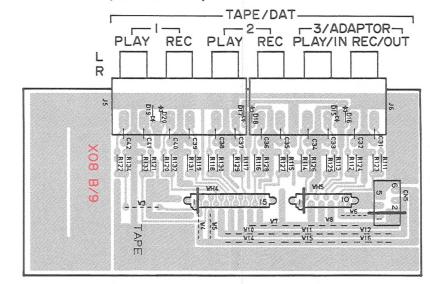


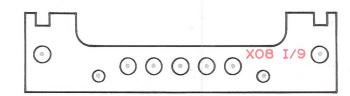


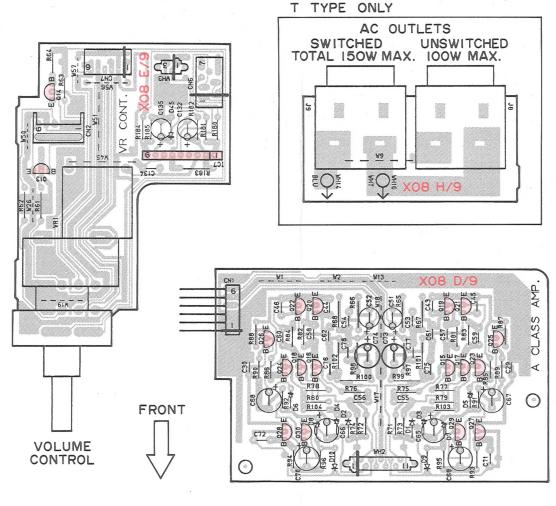


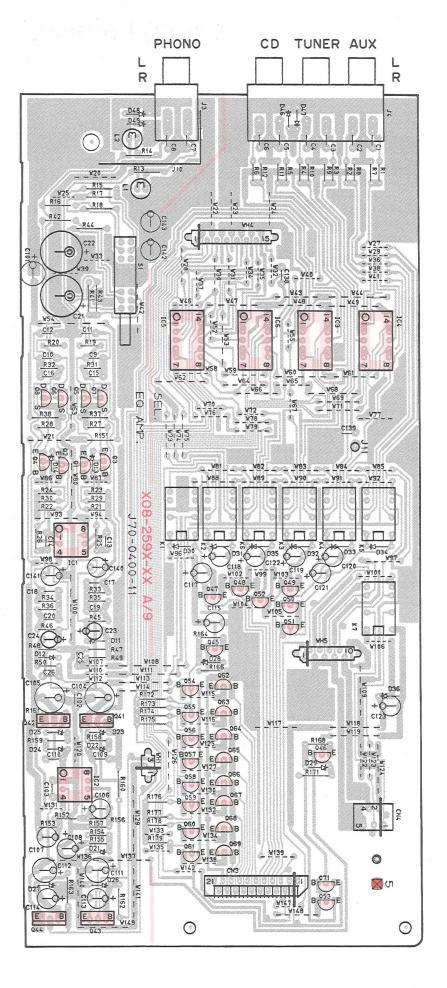


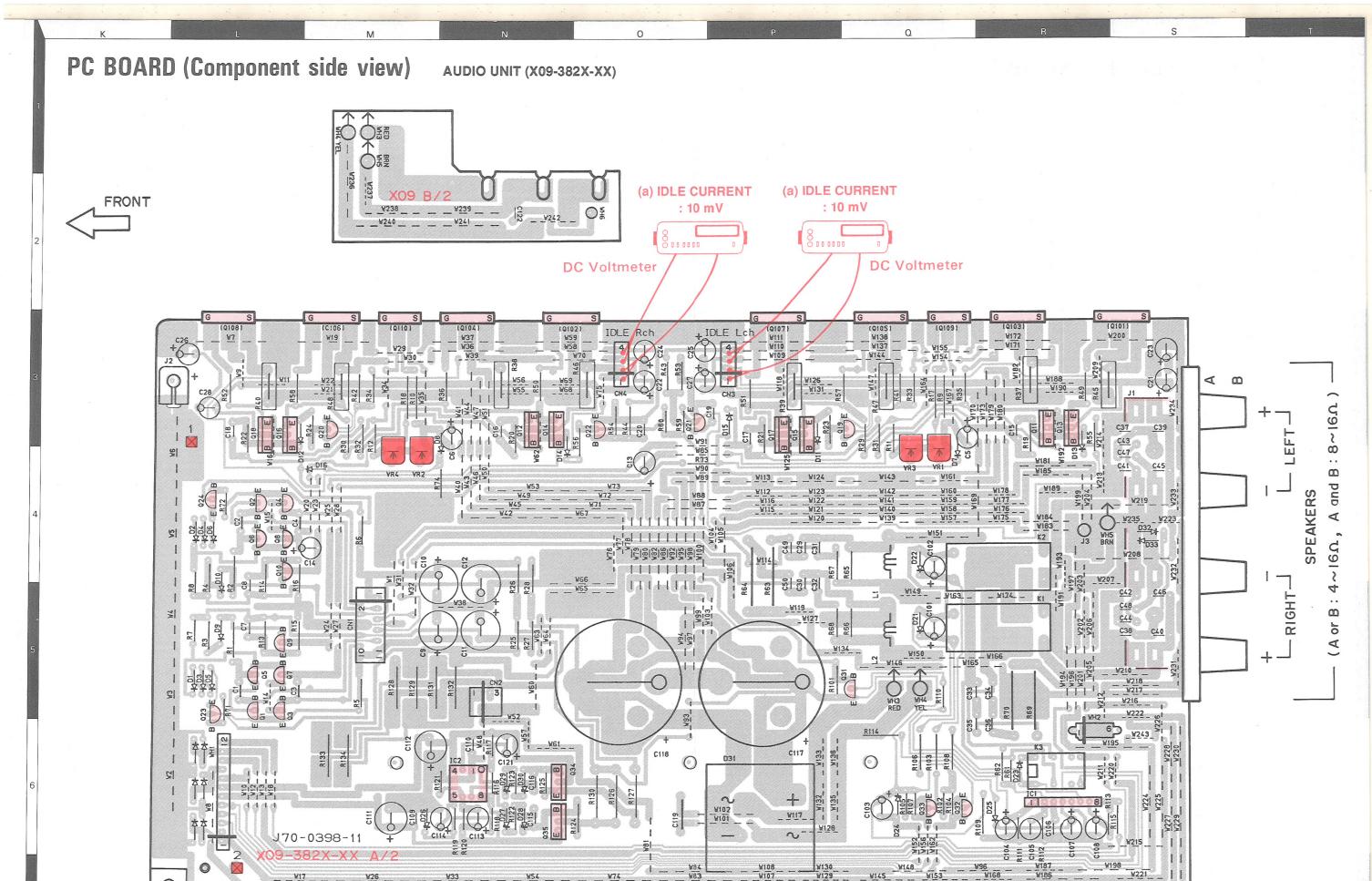
PREAMPLIFIER UNIT (X08-259X-XX)





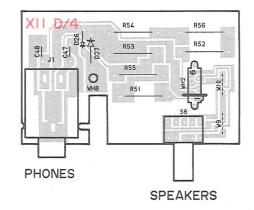


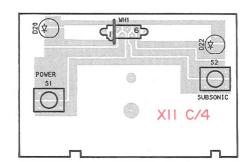


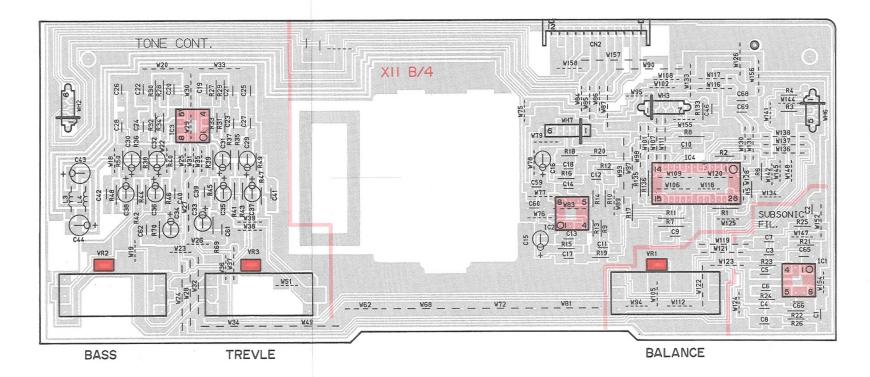


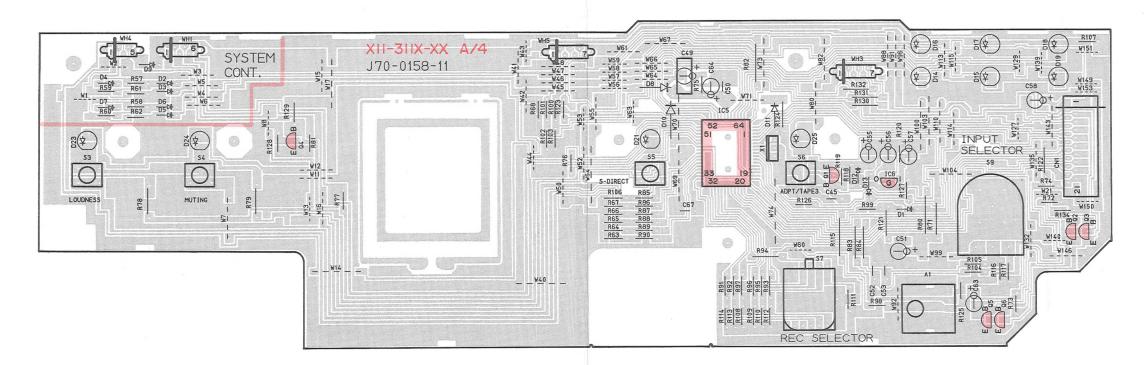
PC BOARD (Component side view)

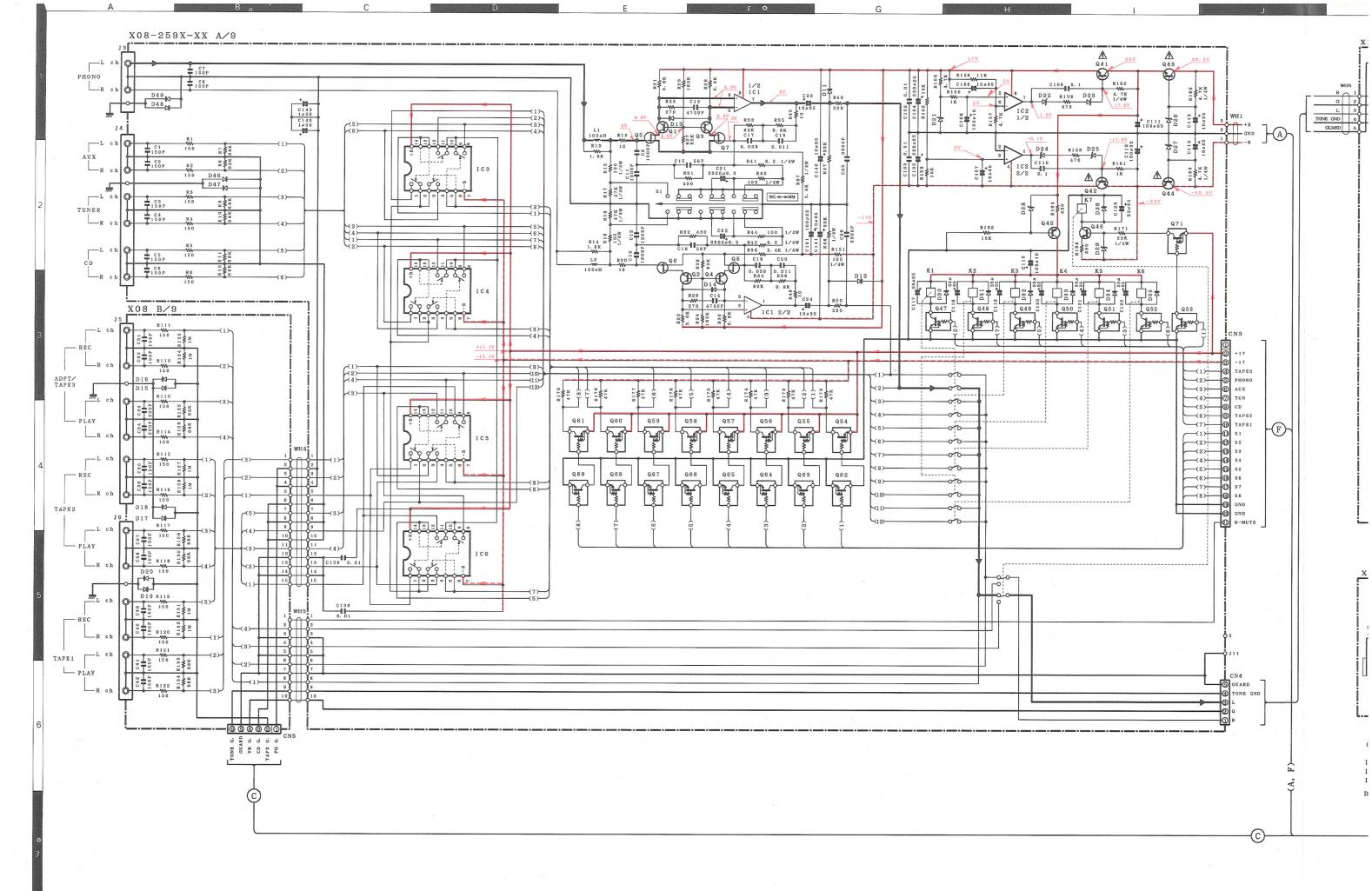
CONTROL UNIT (X11-3112-70)

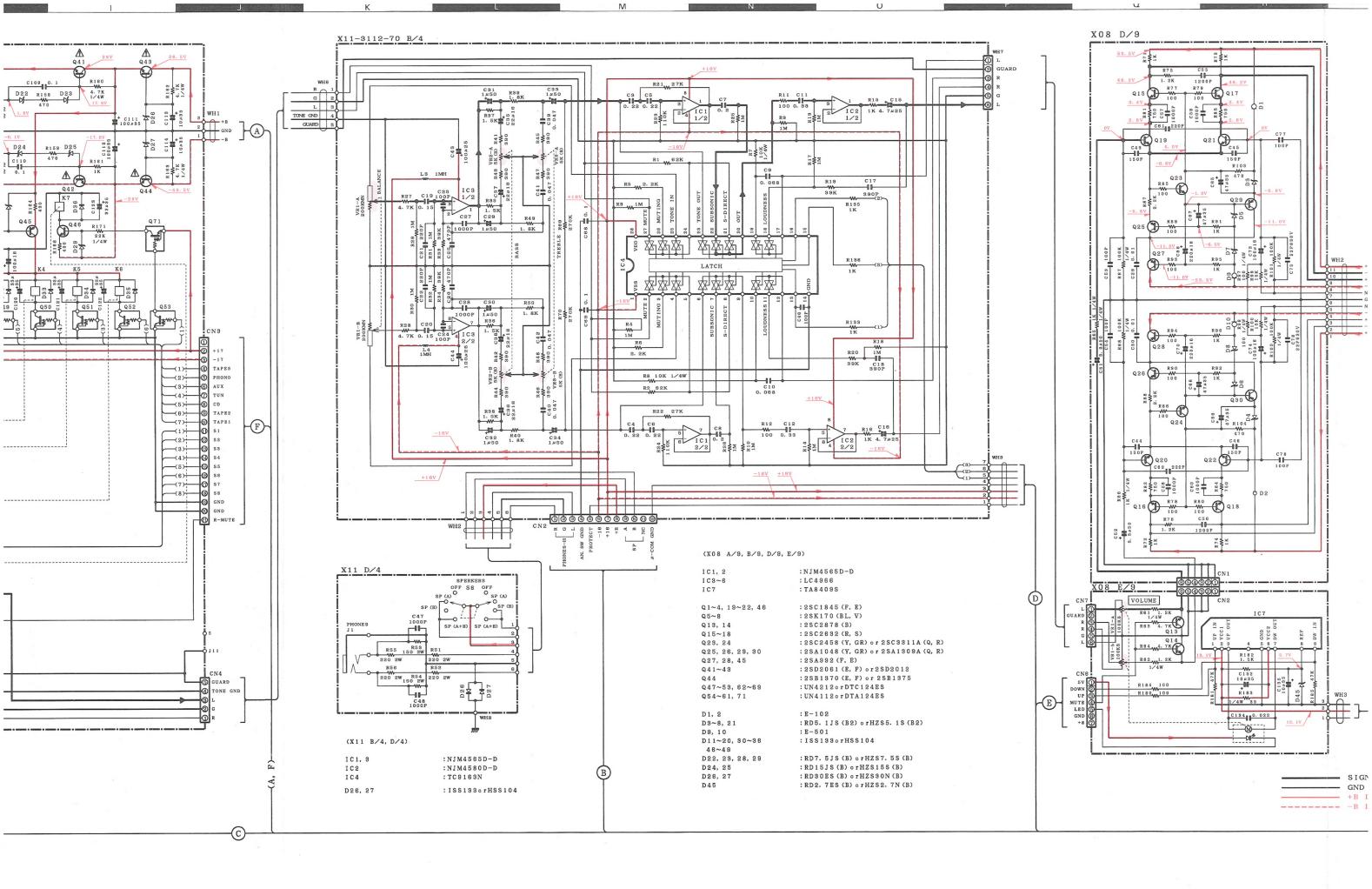


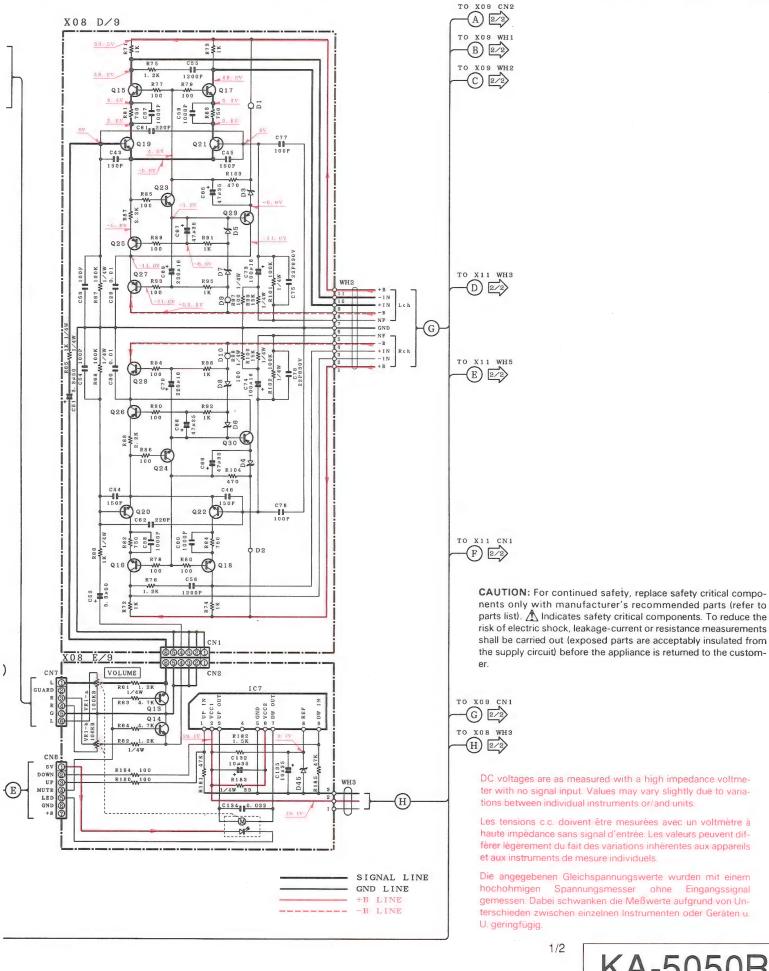






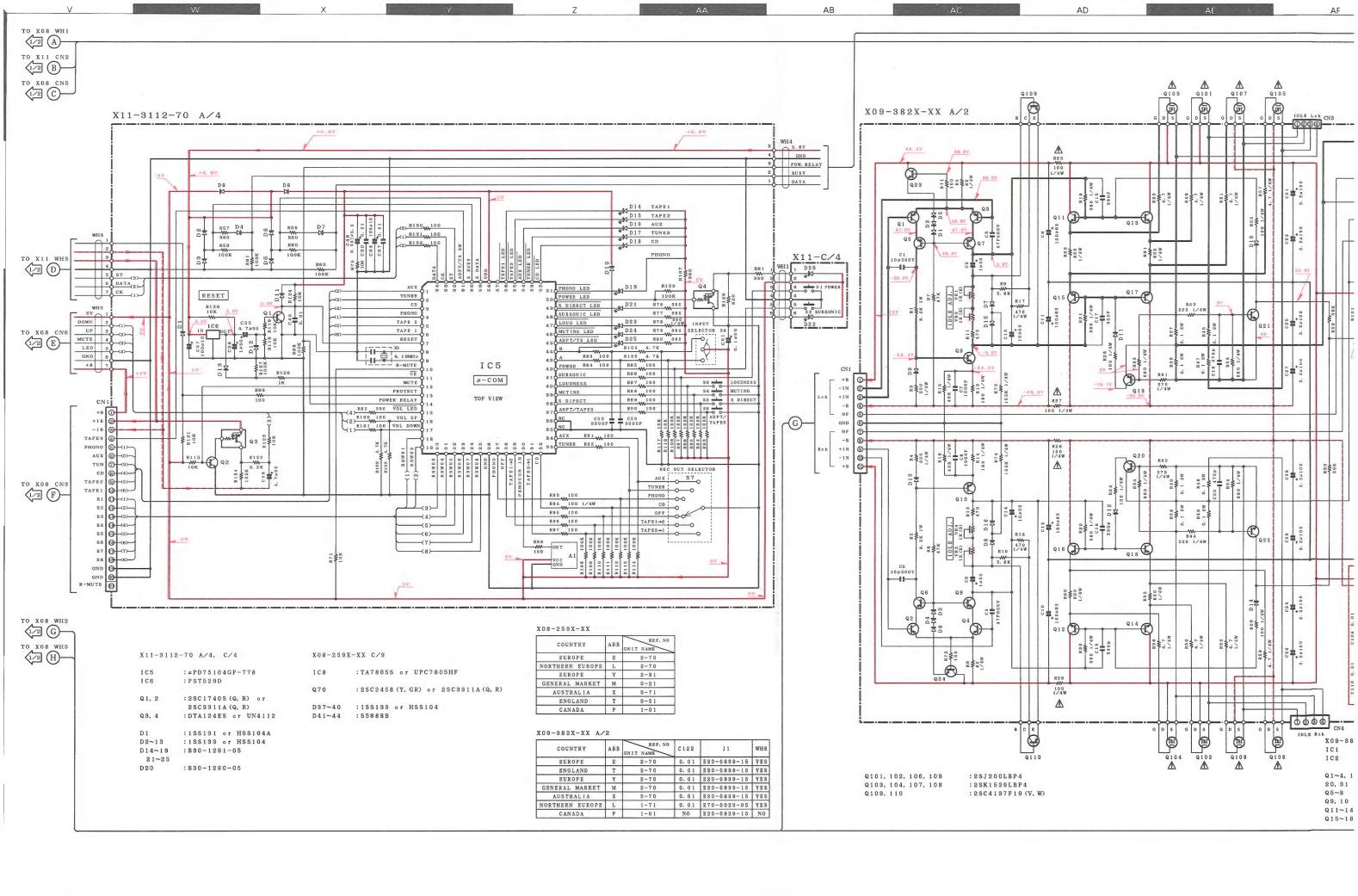


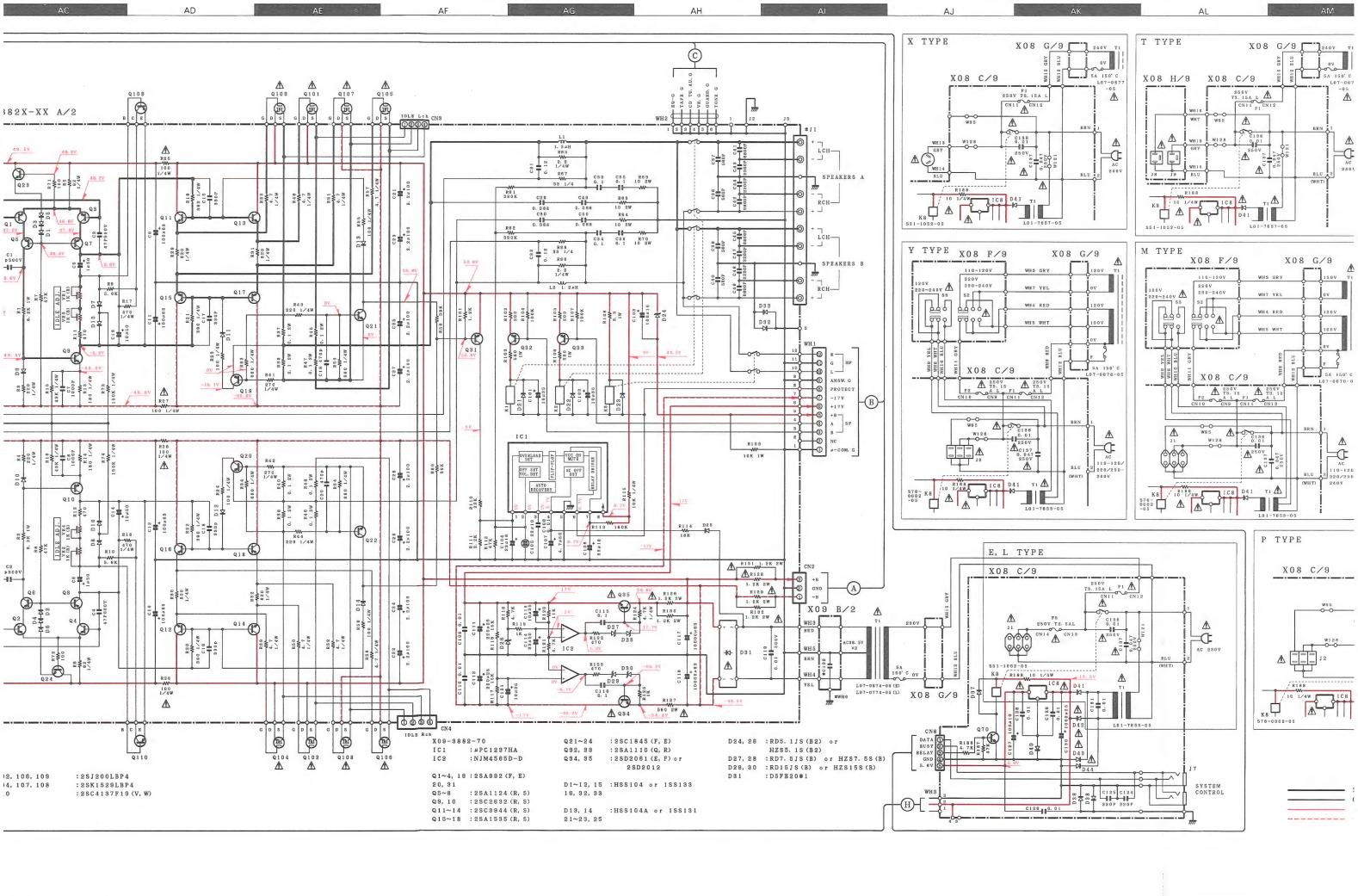


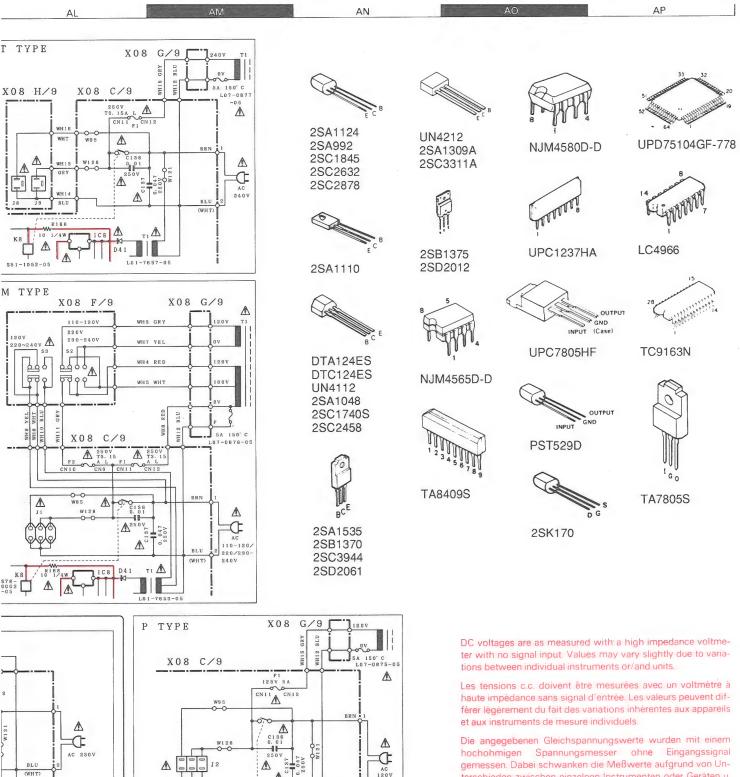


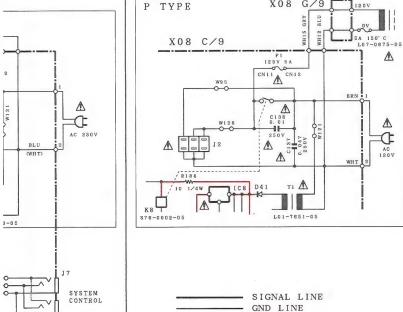
Y08-4812-70











+B LINE -B LINE

terschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). 🐧 Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the custom-

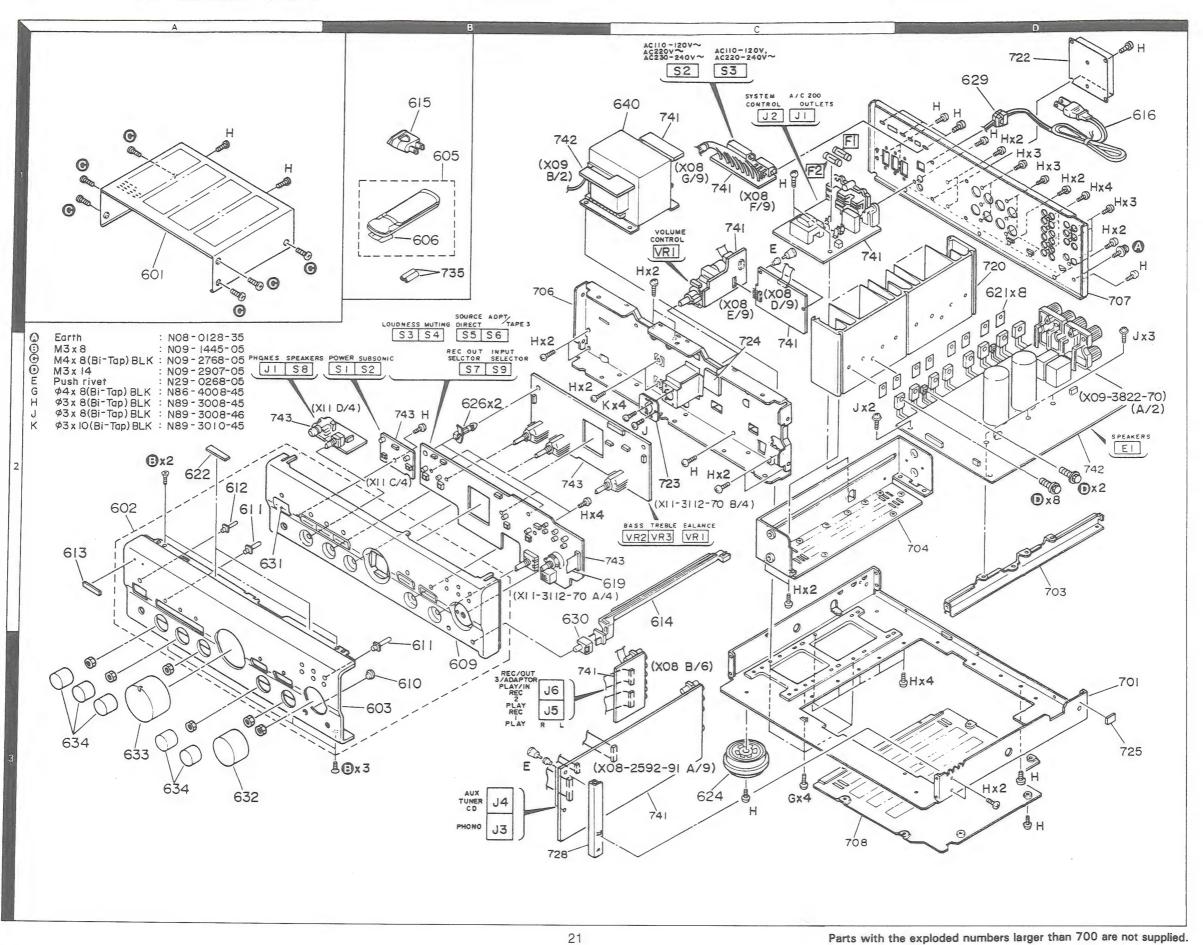
2/2

Y08-4812-70



KA-5050R KA-5050R

EXPLODED VIEW



KA-5050R KA-5050R

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

	Ref. No.	Address		Parts No.	Description	Desti- Re
	参照番号	位 置	Parts 新	部品番号	部品名/規格	nation mar 仕 向備
				KA-	5050R	
	601 602 603 605 606	1A 2A 3B 1B 1B	* * * *	A01-3054-01 A60-0379-21 A60-0380-02 A70-0932-05 A09-0146-08	METALLIC CABINET PANEL ASSY PANEL REMOTE CONTROLLER ASSY BATTERY COVER	
	609 610 611 612 613	3B 2B 2A,3B 2A 2A		B01-0482-01 B11-0237-14 B12-0163-04 B12-0232-04 B43-0287-04	PANEL ESCUTCHEON COLOR FILTER INDICATOR INDICATOR KENWOOD BADGE	
	- - - -			B46-0094-03 B46-0095-03 B46-0096-33 B46-0121-23 B46-0122-23	WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD	Y Y X P EL
	- - -		* *	B46-0143-13 B58-0513-04 B60-1131-00 B60-1132-00 B60-1133-00	WARRANTY CARD CAUTION CARD (PRESET220-240) INSTRUCTION MANUAL (ENGLISH) INSTRUCTION MANUAL (FRENCH) INSTRUCTION MANUAL (CHINESE)	T Y ELP M
	-		*	B60-1134-00 B60-1135-00	INSTRUCTION MANUAL (SPANISH) INSTRUCTION MANUAL (GE,DU,IT)	EM EL
	614	2C		D21-1658-03	EXTENSION SHAFT	
1	615 616 616 616 616	1B 1D 1D 1D 1D		E03-0115-05 E30-0459-05 E30-0812-05 E30-0974-05 E30-2714-05	AC PLUG ADAPTER AC POWER CORD AC POWER CORD AC POWER CORD AC POWER CORD	M ELM Y P
	616 619	1 D 2 C		E30-2718-05 E35-0148-05 E03-0141-05	AC POWER CORD FLAT CABLE AC OUTLET	T X
	621	1 D		F20-1322-05	INSULATING BOARD	
	622	2A	*	G10-0185-04	NON-WOVEN FABRIC	
	-		* * * *	H50-0605-04 H50-0629-04 H10-5166-12 H10-5167-02 H10-5501-02	ITEM CARTON CASE ITEM CARTON CASE POLYSTYRENE FOAMED FIXTURE (L) POLYSTYRENE FOAMED FIXTURE (R) POLYSTYRENE FOAMED FIXTURE (L)	ELPYMX T ELPYMX ELPYMX T
	- - -		*	H10-5502-02 H25-0225-04 H25-0232-04 H25-0651-04 H25-0654-04	POLYSTYRENE FOAMED FIXTURE (R) PROTECTION BAG (850X450X0.03) PROTECTION BAG (235X350X0.03) PROTECTION BAG (0232 PRINTED) PROTECTION BAG (0225 PRINTED)	T ELPYMX ELPYMX T T
The state of the s	624 626 629	3C 2B 1D		J02-1072-05 J19-3328-15 J42-0083-05 J61-0307-05	FOOT UNIT HOLDER POWER CORD BUSHING WIRE BAND	
	630 631 632	2B 2A 3A		K29-3405-04 K29-4210-03 K29-4212-04	KNOB CARTRIDGE (MM/MC) KNOB POWER KNOB INPUT SELECTOR	

L:Scandinavia K:USA P:Canada Y:PX(Far East, Hawaii) T:England E:Europe Y:AAFES(Europe) X:Australia M:Other Areas

ndicates safety critical components.

PARTS LIST

× New Parts

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Ref. No. 参照番号	Addre 位	ess 置	New Parts 新		s No. 番号		escription 名/規	格	nation	Re- marks 備考
633 634	3A 3A		*	K29-4213 K29-4216		KNOB VOLUME KNOB SP, TONE	,BAL,REC	OUT SEL		
640 640 640 640 640	1C 1C 1C 1C		* * * * *	L07-0674 L07-0675 L07-0676 L07-0677	5-05 -05 7-05	POWER TRANSF POWER TRANSF POWER TRANSF POWER TRANSF POWER TRANSF	ORMER ORMER ORMER		E P YM XT L	
A B C D E	1D 2A,3 1A 2D 3B,1			N08-0128 N09-1445 N09-2768 N09-2907 N29-0268	5-05 8-05 7-05	BINDING POST SET SCREW SEMS (TAPTIT SEMS (TAPTIT PUSH RIVET				
G H J K	1D,3 2C,2 2C 3C			N86-4008 N89-3008 N89-3010	3-45 3-46	BINDING HEAD BINDING HEAD BINDING HEAD BINDING HEAD	TAPTITE TAPTITE	SCREW SCREW		
				PREAM	IPLIFIER	UNIT (X08-259)	X-XX)			
C1 -6 C7 ,8 C9 -12 C13 ,14 C15 ,16				CF92FV1H CF92FV1H CF92FV1H CF92FV1H CC45FSL1	1101K 1122J 1472J	MF MF MF CERAMIC	150PF 100PF 1200PF 4700PF 56PF	K K J J		
C17 ,18 C19 ,20 C21 ,22 C23 ,24 C25 ,26				CF92FV1F CF92FV1F C90-1953 CE04KW1V CF92FV1F	H113J I-05 /100M	MF MF ELECTRO ELECTRO MF	0.039UF 0.011UF 3300UF 10UF 3300PF	J J 6.3WV 35WV J		
C29 ,30 C31 ,32 C33 ,34 C35 -46 C51 ,52				CF92FV1H CF92FV1H CF92FV1H CF92FV1H CE04KW1H	1151K 1221K 1151K	MF MF MF ELECTRO	0.010UF 150PF 220PF 150PF 3.3UF	J K K K SOWV		
C53 ,54 C55 ,56 C57 -60 C61 ,62 C65 -68				CF92FV1H CF92FV1H CF92FV1H CF92FV1H CE04KW1V	H122J H102J H221K	MF MF MF ELECTRO	100PF 1200PF 1000PF 220PF 47UF	K J J K 35WV		
C69 ,70 C73 ,74 C75 ,76 C77 ,78 C101				CE04KW10 C90-1917 C91-1466 CF92FV1F CE04KW1E	7-05 5-05 H101K	ELECTRO ELECTRO FILM MF ELECTRO	220UF 100UF 22PF 100PF 100UF	16WV 16WV K K 25WV		
C102,103 C104,105 C106,107 C108 C109,110				CF92FV1F CE04KW1F CE04KW1F CE04KW1F	221M /100M A101M	MF ELECTRO ELECTRO ELECTRO MF	0.010UF 220UF 10UF 100UF 0.10UF	J 25WV 35WV 10WV		
C111,112 C113,114 C115 C117-123 C124,125				CEO4KW1V CEO4KW1V CEO4KW1V CEO4KW1V	V100M C101M V330M	ELECTRO ELECTRO ELECTRO ELECTRO CERAMIC	100UF 10UF 100UF 33UF 220PF	35WV 35WV 16WV 35WV		
C126 C127				CK45FF1I CE04KW1		CERAMIC ELECTRO	0.010UF 100UF	Z 10WV		

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

K:USA T:England E:Europe

P:Canada X:Australia M:Other Areas

24

PARTS LIST

× New Parts

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	Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部 品 名 / 規 格	Desti- nation marks 仕 向 備考
	C128,129 C130 C131 C132 C134			CF92FV1H103J CE04KW1E102M CF92FV1H103J CE04KW1V100M CF92FV1H223J	MF 0.010UF J ELECTRO 1000UF 25WV MF 0.010UF J ELECTRO 10UF 35WV MF 0.022UF J	
Δ	C135 C136 C137 C138,139 C140,141			CE04KW1V100M C91-1439-05 C91-1444-05 CF92FV1H103J CE04KW1V100M	ELECTRO 10UF 35WV FILM 0.01UF 250VAC MF 0.047UF 250VAC MF 0.010UF J ELECTRO 10UF 35WV	
	C142,143			CE04KW1H010M	ELECTRO 1.0UF 50WV	
<u>A</u>	J1 J2 J3 J4 -6 J7		*	E03-0143-05 E03-0142-05 E13-0294-05 E13-0634-05 E11-0188-05	AC QUTLET AC QUTLET PHONO JACK (1P) PHONO JACK (3P) MINIATURE PHONE JACK	ELM PY
Ŵ	J8 ,9			E03-0109-05	AC QUTLET	T
<u>∧</u> <u>∧</u> <u>∧</u>	F1 F1 F1 ,2 F3			F04-5022-05 F05-3121-05 F05-3121-05 F05-2525-05	FUSE (UL) (125V 5A UL) FUSE (SEMKO) (250V T3.15A) FUSE (SEMKO) (250V T3.15A) FUSE (SEMKO) (250V T2.5A)	P ELXT YM EL
	CN9 -12 CN11-14 CN11,12			J11-0098-05 J13-0075-05 J13-0075-05 J13-0075-05	WIRE CLAMPER FUSE CLIP FUSE CLIP FUSE CLIP	YM EL PXT
<u>A</u> <u>A</u>	L1 ,2 T1 T1 T1			L40-1011-47 L01-7651-05 L01-7653-05 L01-7657-05	SMALL FIXED INDUCTOR(100UH,K) POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	P ELYM XT
	R33 ,34 R35 ,36 R99 ,100 R101,102 R151			RN14BK2C8202FTS RN14BK2C6801FTS RN14BK2E1502FTS RN14BK2E1003FTS RD14AB2E101JTS	RN 82.0K F 1/6W RN 6.80K F 1/6W RN 15.0K F 1/4W RN 100K F 1/4W FL-PR00F RD 100 J 1/4W	
	R160 R162,163 R183 R188 VR1			RD14AB2E472JTS RD14AB2E472JTS RD14AB2E330JTS RD14AB2E100JTS RD14AB2E100JTS R29-5059-05	FL-PR00F RD 4.7K J 1/4W FL-PR00F RD 4.7K J 1/4W FL-PR00F RD 33 J 1/4W FL-PR00F RD 10 J 1/4W P0TENTIOMETER	
\triangle	K1 -7 K8 K8 S1 S2			\$76-0027-05 \$51-1052-05 \$76-0002-05 \$40-6036-05 \$31-2322-05	MAGNETIC RELAY MAGNETIC RELAY MAGNETIC RELAY PUSH SWITCH SLIDE SWITCH	ELXT PYM YM
\triangle	S3	1		S62-0001-05	SLIDE SWITCH	YM
	D1 ,2 D3 -8 D3 -8 D9 ,10 D11 -20			E-102 HZS5.1S(B2) RD5.1JS(B2) E-501 HSS104	CONSTANT CURRENT DIODE ZENER DIODE ZENER DIODE CONSTANT CURRENT DIODE DIODE	
	D11 -20 D21			1SS133 HZS5.1S(B2)	DIODE ZENER DIODE	

L:Scandinavia
Y:PX(Far East, Hawaii)

K:USA®

P:Canada

Y:AAFES(Europe)

T:England X:Australia E:Europe
M:Other Areas

PARTS LIST

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Ref. No.	Address	New Parts	Parts No.	Description	Desti-	Re-
参照番号	位 置	新	部品番号	部品名/規格		mark 備考
D21 D22 ,23 D22 ,23 D24 ,25 D24 ,25			RD5.1JS(B2) HZS7.5S(B) RD7.5JS(B) HZS15S(B) RD15JS(B)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D26 ,27 D26 ,27 D28 ,29 D28 ,29 D30 -40			HZS30N(B) RD30ES(B) HZS7.5S(B) RD7.5JS(B) HSS104	ZENER DIØDE ZENER DIØDE ZENER DIØDE ZENER DIØDE DIØDE		
D30 -40 D41 -44 D45 D45 D46 -49			1SS133 S5688B HZS2.7N(B) RD2.7ES(B) HSS104	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
D46 -49 IC1 ,2 IC3 -6 IC7 IC8			1SS133 NJM4565D-D LC4966 TA8409S TA7805S	DIODE IC(OP AMP X2) IC(CMOS LOGIC BILATERAL SW) IC(MOTOR CONTROL) IC(VOLTAGE REGULATOR/ +5V)		
IC8 Q1 -4 Q5 -8 Q5 -8 Q13 ,14			UPC7805HF 2SC1845(F,E) 2SK170(BL) 2SK170(V) 2SC2878(B)	IC(VOLTAGE REGULATOR/ +5V) TRANSISTOR FET FET TRANSISTOR		
Q15 -18 Q19 -22 Q23 ,24 Q23 ,24 Q25 ,26			2SC2632(R,S) 2SC1845(F,E) 2SC2458(Y,GR) 2SC3311A(Q,R) 2SA1048(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
925 ,26 927 ,28 929 ,30 929 ,30 941 -43			2SA1309A(Q,R) 2SA992(F,E) 2SA1048(Y,GR) 2SA1309A(Q,R) 2SD2012	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
241 -43 244 244 245 246		*	2SD2061(E,F) 2SB1370(E,F) 2SB1375 2SA992(F,E) 2SC1845(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
947 -53 947 -53 954 -61 954 -61 962 -69			DTC124ES UN4212 DTA124ES UN4112 DTC124ES	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
962 -69 970 970 971			UN4212 2SC2458(Y,GR) 2SC3311A(Q,R) DTA124ES UN4112	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
1 0		1		(X09-382X-XX)		
01 ,2 03 ,4 05 ,6 07 ,8	k	*	CC45FSL2H100D CC45FSL2H470J CE04KW1H1R0M CF92FV1H102J	CERAMIC 10PF D CERAMIC 47PF J ELECTRO 1.0UF 50WV MF 1000PF J		

L:Scandinavia

K:USA

P:Canada

Y:PX(Far East, Hawaii)

T:England

E:Europe

Y:AAFES(Europe)

X:Australia

PARTS LIST

¥ New Parts

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Ref. No. 参照番号	Address 位 置	New Parts 新			Description 品名/規	格	nation	Re- marks 備考
C9 -12 C13 ,14 C15 -18 C19 ,20 C21 -28			CE04DW1J101M CE04KW1H100M CF92FV1H331K CF92FV1H471J CE04KW2A2R2M	ELECTRO ELECTRO MF MF ELECTRO	100UF 10UF 330PF 470PF 2.2UF	63WV 50WV K J 100WV		
C29 ,30 C31 ,32 C33 -36 C37 -40 C41 ,42			CF92FV1H683J CF92FV1H124J CF92FV1H104J CF92FV1H561J CF92FV1H682J	MF MF MF MF	0.068UF 0.12UF 0.10UF 560PF 6800PF	J J J		
C43 ,44 C45 ,46 C47 ,48 C49 ,50 C101,102			CK45FB1H222K CF92FV1H682J CK45FB1H222K CF92FV1H683J CE04KW1V100M	CERAMIC MF CERAMIC MF ELECTRO	2200PF 6800PF 2200PF 0.068UF 10UF	K J K J 35WV		
C103 C104 C105 C106 C107			CE04KW1A101M CE04KW1C220M CE04HW1A220M CF92FV1H103J CE04KW1H4R7M	ELECTRO ELECTRO NP-ELEC MF ELECTRO	100UF 22UF 22UF 0.010UF 4.7UF	10WV 16WV 10WV J 50WV		
C108 C109,110 C111,112 C113 C114			CE04KW1C330M CF92FV1H103J CE04KW1E221M CE04KW1V100M CE04KW1H330M	ELECTRO MF ELECTRO ELECTRO ELECTRO	33UF 0.010UF 220UF 10UF 33UF	16WV J 25WV 35WV 50WV		
C115,116 C117,118 C119 C121 C122		*	CF92FV1H104J C90-3500-05 CK45FE2H103P CE04KW1V100M CF92FV1H103J	MF ELECTRO CERAMIC ELECTRO MF	0.10UF 10000UF 0.010UF 10UF 0.010UF	J 63WV P 35WV J	ELYMXT	
J1 J1			E20-0839-15 E70-0029-05	SCREW TERMIN			EPYMXT L	
-			J11-0098-05	WIRE CLAMPER				
L1 ,2			L39-1318-05	PHASE COMPEN	SATION CO	OIL		
R1 ,2 R3 ,4 R5 ,6 R13 ,14 R19 -22			RS14DB3A822JTE RD14AB2E221JTS RD14AB2E820JTS RD14AB2E181JTS RD14AB2E391JTS	FL-PROOF RS FL-PROOF RD FL-PROOF RD FL-PROOF RD FL-PROOF RD	8.2K 220 82 180 390	J 1W J 1/4W J 1/4W J 1/4W J 1/4W		
R23 -28 R29 -32 R33 ,34 R35 ,36 R37 -40			RD14AB2E101JTS RD14AB2E821JTS RD14AB2E681JTS RD14AB2E4R7JTS R92-0205-05	FL-PROOF RD FL-PROOF RD FL-PROOF RD FL-PROOF RD METAL-PLATE	100 820 680 4.7 0.1	J 1/4W J 1/4W J 1/4W J 1/4W K 2W		
R41 ,42 R43 ,44 R45 -48 R49 -52 R53 ,54			RD14AB2E271JTS RD14AB2E221JTS R92-0205-05 RD14AB2E4R7JTS RD14AB2E681JTS	FL-PROOF RD FL-PROOF RD METAL-PLATE FL-PROOF RD FL-PROOF RD	270 220 0.1 4.7 680	J 1/4W J 1/4W K 2W J 1/4W J 1/4W		
R55 ,56 R57 ,58 R63 ,64 R65 ,66		*	RD14AB2E101JTS RD14AB2E4R7JTS RS14GB3D100JKW RD14AB2E2R2JTS	FL-PROOF RD FL-PROOF RD FL-PROOF RS FL-PROOF RD	100 4.7 10 2.2	J 1/4W J 1/4W J 2W J 1/4W		

L:Scandinavia

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参照番号	位 置	新	部品番号	部品名/規格	仕 向 備考
R67 ,68 R69 ,70 R103 R106 R108		*	RD14AB2E330JTS RS14GB3D100JKW RS14DB3A561JTE RS14DB3A561JTE RS14DB3A332JTE	FL-PR00F RD 33 J 1/4W FL-PR00F RS 10 J 2W FL-PR00F RS 560 J 1W FL-PR00F RS 560 J 1W FL-PR00F RS 3.3K J 1W	
R109 R124 R126 R127 R128-132			RS14DB3A103JTE RD14AB2E472JTS RS14DB3D122JTE RS14DB3D561JTE RS14DB3D122JTE	FL-PR00F RS 10K J 1W FL-PR00F RD 4.7K J 1/4W FL-PR00F RS 1.2K J 2W FL-PR00F RS 560 J 2W FL-PR00F RS 1.2K J 2W	
R133,134 VR1 -4			RS14DB3D102JTE R12-1616-05	FL-PROOF RS: 1.0K J 2W TRIMMING POT.(1K)	
K1 ,2 K3		*	S51-2092-05 S76-0028-05	MAGNETIC RELAY MAGNETIC RELAY	
D1 -12 D1 -12 D13 ,14 D13 ,14 D15 ,16			HSS104 1SS133 HSS104A 1SS131 HSS104	DIODE DIODE DIODE DIODE	
D15 ,16 D21 -23 D21 -23 D24 D24			1SS133 HSS104A 1SS131 HZS5.1S(B2) RD5.1JS(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	
D25 D25 D26 D26 D27 ,28			HSS104A 1SS131 HZS5.1S(B2) RD5.1JS(B2) HZS7.5S(B)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
D27 ,28 D29 ,30 D29 ,30 D31 D32 ,33			RD7.5JS(B) HZS15S(B) RD15JS(B) D5FB20*1 HSS104	ZENER DIØDE ZENER DIØDE ZENER DIØDE DIØDE DIØDE	
D32 ,33 IC1 IC2 Q1 -4 Q5 -8			1SS133 UPC1237HA NJM4565D-D 2SA992(F,E) 2SA1124(R,S)	DIODE IC(POWER AMP) IC(OP AMP X2) TRANSISTOR TRANSISTOR	
Q9 ,10 Q11 -14 Q15 -18 Q19 ,20 Q21 -24			2SC2632(R,S) 2SC3944(R,S) 2SA1535(R,S) 2SA992(F,E) 2SC1845(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q31 Q32 ,33 Q34 ,35 Q34 ,35 Q101,102		* *	2SA992(F,E) 2SA1110(Q,R) 2SD2012 2SD2061(E,F) 2SJ200LBP4	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR FET	
Q103,104 Q105,106 Q107,108 Q109,110		* * *	2SK1529LBP4 2SJ200LBP4 2SK1529LBP4 2SC4137F19(V,W)	FET FET FET TRANSISTOR	

L:Scandinavia

K:USA

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Ref. No.	Address		Parts No.		Description		Desti-	Re-
参照番号	位 置	Parts 新	部品番号	部品	品名/規	格	nation 仕 向	mark備考
			CONTROL UN	VIT (X11-3112-	70)			_
D14 -19 D20 D21 -25			B30-1291-05 B30-1290-05 B30-1291-05	LED LED LED				
C3 -6 C7 ,8 C9 ,10 C11 ,12 C15 ,16			CF92FV1H224J CF92FV1H203J CF92FV1H683J CF92FV1H334J C90-1886-05	MF MF MF ELECTRO	0.22UF 0.020UF 0.068UF 0.33UF 4.7UF	J J J 25WV		
C17 ,18 C19 ,20 C21 ,22 C23 ,24 C25 ,26			CF92FV1H391K CF92FV1H154J CF92FV1H221K CF92FV1H101K CF92FV1H471J	MF MF MF MF	390PF 0.15UF 220PF 100PF 470PF	K J K K J		
C27 ,28 C29 -34 C35 -38 C39 -42 C43 ,44			CF92FV1H102J CE04KW1H010M CE04KW1C220M CF92FV1H473J CE04KW1E101M	MF ELECTRO ELECTRO MF ELECTRO	1000PF 1.0UF 22UF 0.047UF 100UF	J 50WV 16WV J 25WV		
C45 C46 C47,48 C49 C50			CK45FF1H103Z CC45FSL1H101J CF92FV1H102J C90-1826-05 CK45FF1H103Z	CERAMIC CERAMIC MF BACKUP CERAMIC	0.010UF 100PF 1000PF 0.047F 0.010UF	Z J J 5.5WV Z		
C51 C52 ,53 C55 C56 C57			CE04KW1H0R1M CK45FB1H332K CE04KW1V4R7M CE04KW1H010M CE04KW1A101M	ELECTRO CERAMIC ELECTRO ELECTRO ELECTRO	0.1UF 3300PF 4.7UF 1.0UF	50WV K 35WV 50WV 10WV		
C58 C64 C67 C68 ,69			CE04KW1V4R7M CE04KW1A101M CK45FF1H103Z CF92FV1H104J	ELECTRO ELECTRO CERAMIC MF	4.7UF 100UF 0.010UF 0.10UF	35WV 10WV Z J		
J1		E	E11-0208-05	PHONE JACK				
		I	F10-0575-04	SHIELDING PL	ATE			
.3 ,4 K1		1.5	L40-1021-14 L78-0267-05	SMALL FIXED RESONATOR	INDUCTOR(4.194M			
R51 ,52 R53 ,54 R55 ,56 VR1 VR2 ,3		F	RS14DB3D221JTE RS14DB3D151JTE RS14DB3D221JTE RO6-5190-05 RO6-2025-05	FL-PROOF RS FL-PROOF RS FL-PROOF RS POTENTIOMETE POTENTIOMETE		J 2W J 2W J 2W		
51 -6 57 58		5	540-1064-05 560-0010-05 529-2035-05	PUSH SWITCH ROTARY SWITC ROTARY SWITC				
59			Γ99-0521-05	ROTARY ENCOD	ER			
01 01 02 -13 02 -13 026 ,27		1 H	HSS104A LSS131 HSS104 LSS133 HSS104	DIODE DIODE DIODE DIODE				

L:Scandinavia

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Ref. No.	Address	New Parts	Parts No.	Description	Re
参照番号	位 置	新	部品番号	部品名/規格	mar 備る
026 ,27 [C1 [C2 [C3			1SS133 NJM4565D-D NJM4580D-D NJM4565D-D TC9163N	DIODE IC(OP AMP X2) IC(OP AMP X2) IC(OP AMP X2) IC(OP AMP X2) IC(BLATERAL SWITCH X16)	
CC5 CC6 91 ,2 91 ,2			UPD75104GF-778 PST529D 2SC1740S(Q,R) 2SC3311A(Q,R) DTA124ES	IC(4BIT MICROPROCESSOR) IC(SYSTEM RESET) TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	
93,4			UN4112	TRANSIST@R	
.1			W02-1046-05	ELECTRIC CIRCUIT MODULE	
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			70		
				q	

L:Scandinavia

K:USA

P:Canada

Y:PX(Far East, Hawaii)

T:England

E:Europe

Y:AAFES(Europe)

X:Australia

SPECIFICATIONS

For U.S.A. and Canada

Continuous rated power output (FTC)

80 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20,000 Hz with no more than 0.04% total harmonic distortion.

Dynamic power
Damping factor
Total harmonic distortion0.04%
(20 Hz \sim 20,000 Hz, 80 W, 8 Ω
0.002%
(1 kHz, 40 W,8 Ω
Intermodulation distortion0.002% (80 W,8 Ω
(70 Hz: 7 kHz = 4:1)
Frequency response (IHF '78) TUNER/AUX/TAPE1, 2/CD
5 Hz ~ 100 kHz, +0 dB, -3 dB
PHONO 'RIAA' response20 Hz ~ 20 kHz,
+0.3 dB, -0.3 dB
Maximum input level
PHONO (MM)120 mV, 0.03% T.H.D. at 1 kHz
PHONO (MC)10 mV, 0.03% T.H.D. at 1 kHz
Signal to noise ratio
PHONO (MM)87 dB (IHF '66)
79 dB (IHF '78)
PHONO (MC)68 dB (IHF '66)
74 dB (IHF '78)
TUNER/AUX/TAPE1, 2/CD104 dB (IHF '66)
80 dB (IHF '78)
Input sensitivity/impedance
PHONO (MM)2.5 mV/47 kΩ
PHONO (MC)
TUNER/AUX/TAPE1, 2/CD200 mV/47 kΩ
ADAPTOR IN200 mV/47 kΩ
Tone control
BASS±10 dB (at 100 Hz)
TREBLE±10 dB (at 10 kHz)
Filter
SUBSONIC filter18 Hz, -12 dB/oct
Loudness control
(VOLUME at -30 dB level)+6 dB (100 Hz)
+3 dB (10 kHz)
Output level/impedance TAPE REC200 mV/300 Ω
TAPE REC
ADAPTOR OUT200 mV/300 Ω
General
Power consumption
For Canada3 A
For U.S. Military270 W
AC outlets
For Canada
SWITCHED3; (Total 200 W, 1.6 A max.)
For U.S. Military
SWITCHED3; (Total 200 W max.)
Dimensions W: 440 mm (17-5/16")
H: 147 mm (5-13/16")
D: 403 mm (15-7 / 8")
Veight (net)12 kg (26.5 lb)

For U.K. and Europe

i oi o.k. aiiu Luiope
Continuous rated power output (DIN) 1 kHz, at 8 Ω
at 4 Ω
at 4 Ω
175 W (4 Ω)
Damping factor
Total harmonic distortion
Intermodulation distortion0.002% (80 W, 8 Ω) (70 Hz : 7 kHz = 4 : 1)
Frequency response (IHF '78) TUNER/AUX/TAPE1, 2/CD
5 Hz ~ 100 kHz, +0 dB, -3 dB
PHONO 'RIAA' response
Maximum input level
PHONO (MM)120 mV, 0.03% T.H.D. at 1 kHz PHONO (MC)10 mV, 0.03% T.H.D. at 1 kHz
Signal to noise ratio
PHONO (MM)87 dB (IHF '66)
79 dB (IHF '78)
PHONO (MC)
74 dB (IHF '78)
TUNER/AUX/TAPE1, 2/CD104 dB (IHF '66)
80 dB (IHF '78)
PHONO (MM)58 dB (DIN, 50 mW output) TUNER/AUX/TAPE1, 2/CD
59 dB (DIN, 50 mW output)
Input sensitivity/impedance
PHONO (MM)2.5 mV/47 kΩ
PHONO (MC)
TUNER/AUX/TAPE1, 2/CD200 mV/47 kΩ
ADAPTOR IN200 mV/47 kΩ
Tone control
BASS±10 dB (at 100 Hz)
TREBLE±10 dB (at 10 kHz)
Filter
SUBSONIC filter
(VOLUME at -30 dB level)+6 dB (100 Hz)
+3 dB (10 kHz)
Output level/impedance TAPE REC200 mV/300 Ω
ADAPTOR OUT200 mV/300 Ω
General
Power consumption
AC outlets For U.K.
SWITCHED2; (Total 200 W max.)
For Europe
SWITCHED3; (Total 200 W max.)
Dimensions W: 440 mm
H: 147 mm
D: 403 mm
Weight (net)

SPECIFICATIONS

For other countries

Continuous rated power output (IHF '66) From 20 Hz to 20,000 Hz 0.04% T.H.D. at 8 Ω	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Demonstructure to the second s	
Damping factor	SUBSONIC filter 18 Hz, –12 dB/oct
Total harmonic distortion0.04%	Loudness control
(20 Hz ~ 20,000 Hz, 80 W, 8 Ω)	(VOLUME at -30 dB level)+6 dB (100 Hz)
0.002%	+3 dB (10 kHz)
(1 kHz, 40 W, 8 Ω)	Output level/impedance
Intermodulation distortion0.002% (80 W, 8 Ω)	TAPE REC200 mV/300 Ω
(70 Hz: 7 kHz = 4:1)	ADAPTOR OUT200 mV/300 Ω
Frequency response (IHF '78)	
TUNER/AUX/TAPE1, 2/CD	
5 Hz ~ 100 kHz, +0 dB, –3 dB	General
PHONO 'RIAA' response20 Hz ~ 20 kHz,	
+0.3 dB, -0.3 dB	Power consumption270 W
Maximum input level	AC outlet
PHONO (MM)120 mV, 0.03% T.H.D. at 1 kHz	For Australia
PHONO (MC) 10 mV, 0.03% T.H.D. at 1 kHz	SWITCHED1; (200 W max.)
Signal to noise ratio	For other countries
PHONO (MM)87 dB (IHF '66)	SWITCHED3; (Total 200 W max.)
79 dB (IHF '78)	Dimensions W: 440 mm
PHONO (MC)	H: 147 mm
74 dB (IHF '78)	D: 403 mm
TUNER/AUX/TAPE1, 2/CD104 dB (IHF '66)	Weight (net)
80 dB (IHF '78)	12 kg
55 db (IIII 76)	

Input sensitivity/impedance
PHONO (MM)2.5 mV/47 kΩ
PHONO (MC)
TUNER/AUX/TAPE1, 2/CD200 mV/47 kΩ
ADAPTOR IN200 mV/47 kΩ
Tone control
BASS±10 dB (at 100 Hz)
TREBLE±10 dB (at 10 kHz)
Filter
SUBSONIC filter 18 Hz, -12 dB/oct
Loudness control
(VOLUME at -30 dB level)+6 dB (100 Hz)
+3 dB (10 kHz)
Output level/impedance
TAPE REC200 mV/300 Ω
ADAPTOR OUT200 mV/300 Ω
12.0 10.00 1
General
Power consumption
AC outlet
For Australia
SWITCHED 1; (200 W max.)
For other countries
SWITCHED3; (Total 200 W max.)
Discouries

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be change without notice.

KENWOOD CORPORATION

Alive Mitake, 2-5, 1-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90810 U.S.A. 550 Clark Drive, Mount Olive, New Jersey 07828, U.S.A. 99-994 Iwaena St. Alea, Hawaii 96701

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8 KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. BOX 55-2791, Piso 6 Plaza Chase, Cl. 47 y Aquilino de la Guardia, Panama, Republic de Panama

TRIO-KENWOOD U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts, WD1 8EB United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.

Mechelsesteenweg 418 B-1930 Zaventern, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 6056 Heusenstamm, Germany

TRIO-KENWOOD FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France KENWOOD LINEAR S.p.A.

20125, Milano-Via Arbe, 50, Italy

KENWOOD ESPAÑA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 499 074)

P.O. BOX 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.
Unit 3712-3724, Level 37 Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T. Hong Kong

KENWOOD ELECTRONICS SINGAPORE PTE LTD No. 1 Genting Lane # 07-00, Singapore, 1334

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Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.